

Summary of Lesson Plans of College Faculty

Name of College: **Mukand Lal National College, Yamuna Nagar**Academic Session: **2017-18**Semester: **Odd**For the month of **JULY- DEC 2017**

Sr. No.	Name of Assistant /Associate Professor	Subject	Topics / Chapters to be covered	Academic activity to be organized	Topic of Assignments / Tests to be given to the students
1.	Anil Oberoi	Physics (theory) Paper 2- (Nuclear Physics) Class – B.Sc 3 rd year	<u>Unit-1</u> ‘ Nuclear structure and properties of nucleus ‘ (JULY- AUG) <u>Unit-2</u> ‘ Nuclear radiation decay Processes’ (AUG-SEPT) <u>Unit-3</u> ‘Nuclear accelerators and Nuclear radiation detectors’ (SEPT) <u>Unit-4</u> ‘ Nuclear reaction and Nuclear reactors’ (OCT)	<ul style="list-style-type: none"> • Science Quiz • Essay Writing Competition 	<ul style="list-style-type: none"> ➤ <u>Topics of Assignment</u> - Unit-4 ➤ <u>Topics of class test</u> - Unit -1

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1.	Anil Oberoi	Physics (Practical)	<p>B. Sc. – 3rd year: e/m by Thomson's method; Transistor as voltage amplifier in common base (CB) configuration; Transistor as voltage amplifier in common emitter (CE) configuration; Hall effect for a given semiconductor; B-H curve of a given ferromagnetic material; Plateau using GM counter; Mass attenuation coefficient by GM counter; Diameter of particles of Lycopodium powder using Carona ring; Diameter of thin wire using He-Ne laser; Resolving power of a plane transmission grating; Resolving power of a prism; Thickness of a thin paper by fringe width of interference fringes in an air wedge; Wave length of sodium light by using Frasnél's biprism; Double slit interference by laser light; FORTRAN program to compute product of two matrices, finite integral through Simpson's one-third rule, sum of an infinite series and ascending and descending order.</p> <p><i>(All practicals are performed at a time by sub groups on rotation basis)</i></p>		

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